

ABSTRACT

The invention relates to an internal combustion engine (10) comprising a direct-injection otto engine (12) which does not have a stratified charge capacity, or only to a small extent, and a catalyst system (16) which is arranged downstream from the otto engine (12) and is provided with at least one catalyst (18). According to the invention, the catalyst system (16) has a catalyst volume (KV) of below $0.8 \times$ engine capacity (VH) or below 1.3 L per 100 kW rated engine power (PNENN), and the average specific precious metal load of the at least one catalyst (18) of the catalyst system (16) is below 3.59g/dm³, the entire precious metal mass of the at least one catalyst (18) being below 2 g per liter of engine capacity (VH) or below 3.5 g per 100 kW rated engine power (PNENN) of the gasoline engine (12).